

Rec'd PCT/PTO 20 JUL 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



10/542878

(10) International Publication Number  
WO 2004/067288 A1

(43) International Publication Date  
12 August 2004 (12.08.2004)

PCT

(51) International Patent Classification: B41M 5/26

[KR/KR]; 103-1001 Sindorim Daerim APT., 642, Sindorim-dong, Guro-gu, Seoul 152-774 (KR).

(21) International Application Number:  
PCT/KR2004/000155

(74) Agent: HAN YANG PATENT FIRM; 10th Floor, Daeum Building, 706-1, Yeoksam-Dong, Gangnam-Gu, Seoul 135-987 (KR).

(22) International Filing Date: 29 January 2004 (29.01.2004)

(25) Filing Language: Korean

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:  
10-2003-0005783 29 January 2003 (29.01.2003) KR  
10-2003-0005782 29 January 2003 (29.01.2003) KR

(71) Applicant (for all designated States except US): C & I SYSTEMS CO., LTD. [KR/KR]; 513 Byucksan/Gyeongin Digital Valley 2, 481-10 Gasan-dong, Geumcheon-gu, Seoul 153-803 (KR).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

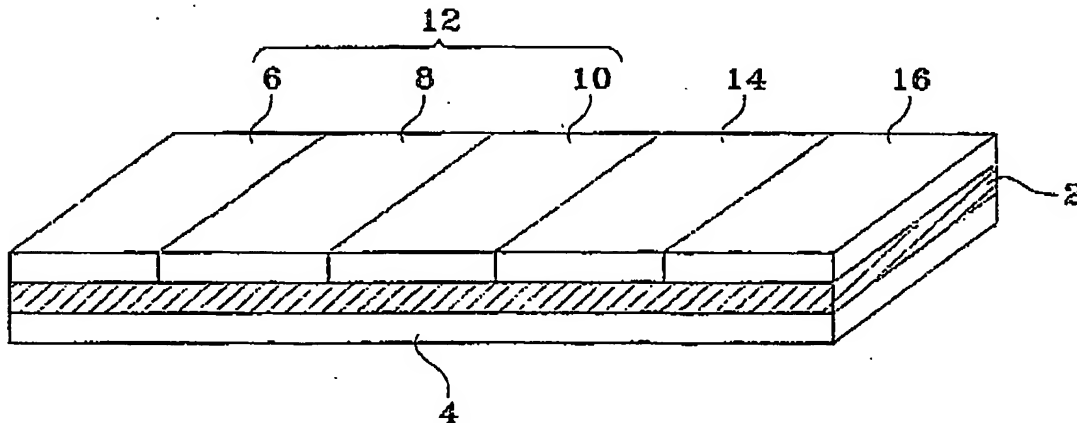
(72) Inventors; and

(75) Inventors/Applicants (for US only): PARK, Sang-Cheon [KR/KR]; 102-506 Donga APT., 157 Jamwon-dong, Seochogu, Seoul 137-948 (KR). LEE, Sun-O [KR/KR]; 37-22 Seongseok-dong, Ilsan-gu, Goyang-si, Gyeonggi-do 411-570 (KR). SEO, Jung-Seok [KR/KR]; 105-901 Saemmeori APT., 907 Dunsan-dong, Seo-gu, Daejeon Metropolitan City 302-120 (KR). KIM, Young-Tae

Published:  
— with international search report

[Continued on next page]

(54) Title: THERMAL TRANSFER RIBBON FOR FORGERY-PREVENTION



(57) Abstract: A thermal transfer ribbon for forgery prevention comprising: a substrate film; a heat-resistant layer coated on one surface of the substrate film for preventing thermofusibility with a thermal transfer head; one or more than one thermofusible ink layer, or one or more than one thermofusible ink layer and one or more than one protective layer coated on the other surface of the substrate just by one layer; and if necessary one or more than one sublimable dye layer, wherein the thermofusible ink layer and/or protective layer contain luminescence, invisible fluorescence or mixture thereof, such that a security function for preventing forgery and alteration is added simultaneously with the printing by using the ribbon equipped with the security function to a printing material in one process.

WO 2004/067288 A1